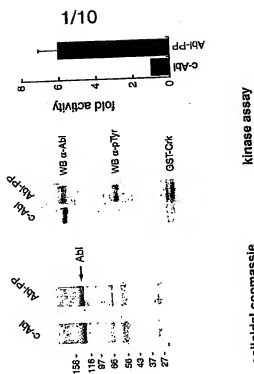
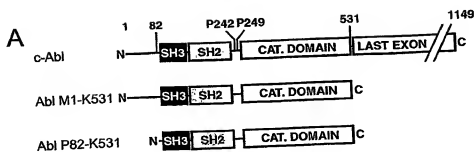
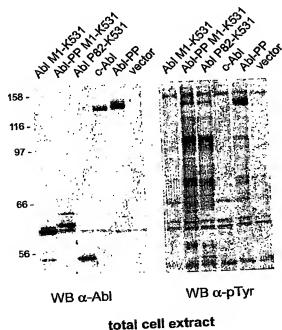
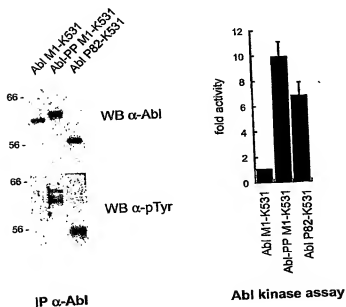


A



2/10

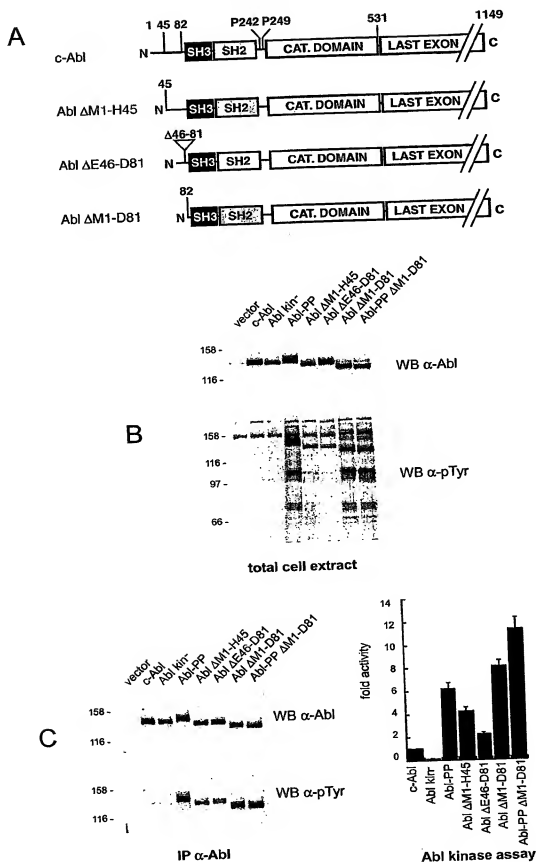
FIG. 2

**B****C**

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3/10

FIG. 3

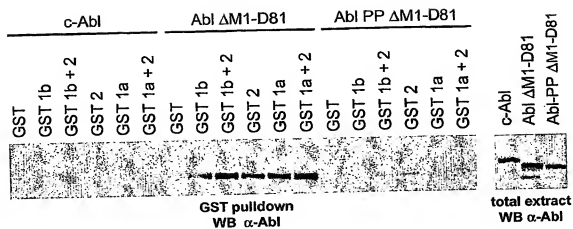


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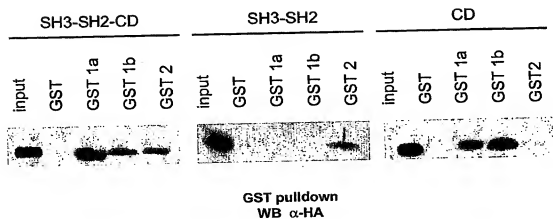
4/10

FIG. 4

A

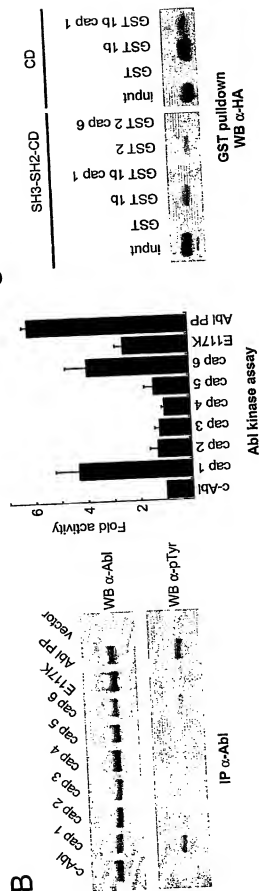
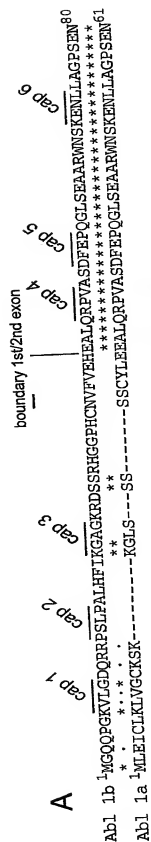


B



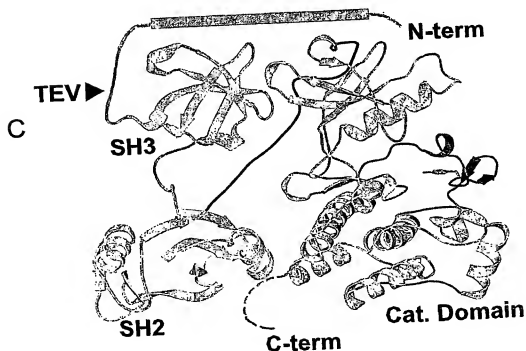
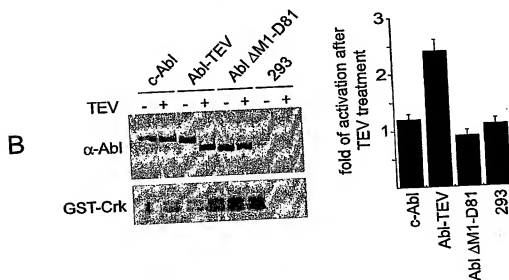
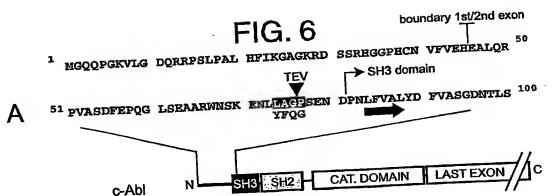
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FIG. 5



6/10

FIG. 6



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7/10

A

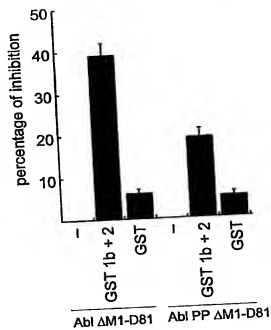
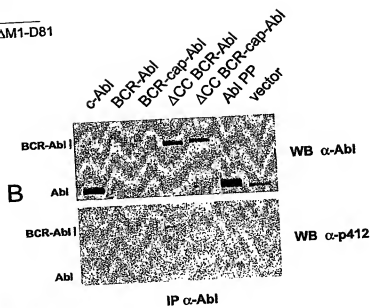
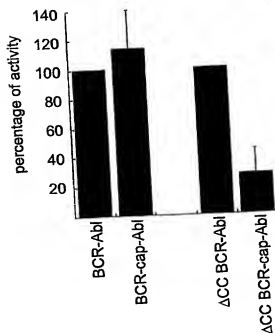


FIG. 7



C



8/10

FIG 8

hAb11a MLEICLKL----VGCKSK-----KGLSSSSS-----C-YLEE-
 mAb1I MLEICLKL----VGCKSK-----KGLSSSSS-----C-YLEE
 hAb11b MGQQPGKV----LGDQRRPSLPALHFIKGAGKRDSSRHGGP-----HCNVFVEH
 mAb1IV MGQQPGKV----LGDQRRPSLPALHFIKGAGKRDSSRHGGP-----HCNVFVEH
 hArg1a --MVLGTV----LLFPN-----TYGRDQDTS-----LCCLCTEA
 hArg1b MGQQVGRVGEAPGLQQPQPRGIRGSSAARFSGRRRDPAGRTTETGFIQTQHDHFASCVED

 hAb11a -----ALQRPVASFEPQGL**SEAARWNSKEN**LLAGPSEN----- 61
 mAb1I -----EALQRPVASFEPQGL**SEAARWNSKEN**LLAGPSEN----- 63
 hAb11b -----EALQRPVASFEPQGL**SEAARWNSKEN**LLAGPSENDPNLFVALYDFV 92
 mAb1IV -----EALQRPVASFEPQGL**SEAARWNSKEN**LLAGPSEN----- 80
 hArg1a ---SESALPDLTEALHRPYGCDVEPQAL**NEAIRWSSKEN**LLGATES----- 71
 hArg1b GFEGDKTGSSPEALHRPYGCDVEPQAL**NEAIRWSSKEN**LLGATES----- 107

Legend:

Bold: cap 1 domain

Underlined: cap 6 domain

Bold italic: conserved domain upstream of cap 6 domain that forms an
 alpha helix with cap 6 domain

FIG 9

hAbl1a -----
 mAblI -----
 hAbl1b -----
 mAblIV -----
 hArg ATGGGGCAGCAGGTGGGCCGCTCGGGGAAGCTCCGGGGCTCCAGCAGCCTCAGCCCCG 60

hAbl1a -----
 mAblI -----
 hAbl1b -----ATGGGGCAGCAGCCTGGAAGTCTCTGGGGACCAAAG 38
 mAblIV -----ATGGGGCAGCAGCCTGGAAGTCTCTGGGGACCAAAG 38
 hArg GGGATCCGGGGCAGCAGTGCAGCCAGGCCCTCCGGCCGAGGCGGACCCGGCGGGGCGC 120

hAbl1a -----ATGTTGGAGATCTGCCTGAAGCTGGTGGGCTGCAATCCAAGAAG 46
 mAblI -----ATGTTGGAGATCTGTTTGAAGTTGGTGGGCTGCAATCCAAGAAG 46
 hAbl1b AAGGCCTAGTTTGCCCGCCCTGCATTTTATCAAAGGGGCAGGGAAGAGGGACTCATCGAG 98
 mAblIV AAGGCCTAGTTTGCCCGCCCTGCATTTTATCAAAGGGGCAGGGAAGAGGGACTCATCGAG 98
 hArg ACCACAGAGACCGGCTTCAATATCTTCACCCAGCATGATCATTTGCCAG-CTGTGTGGA 179

hAbl1a GGCTGTCCTCGTCCTCCAGCTGTTATCTGGAAGAA-----GCCCTGCAGAGGCCAGT 98
 mAblI GGCTCTCTCTCGTCCTCCAGCTGCTACCTGGAGGAACAC--GAAGCCCTGCAGAGGCCAGT 104
 hAbl1b GCATGGGGGC-CCACACTGCAATGTCTTTGTGGAACAC--GAAGCCCTGCAGAGGCCAGT 155
 mAblIV GCATGGGGGC-CCACACTGCAATGTCTTTGTGGAACAC--GAAGCCCTGCAGAGGCCAGT 155
 hArg GGATGGATTTGAGGGAGACAAGACTGGAGGCAGTAGTCCAGAAGCTTTGATCATGCTCCCTA 239

10/10

hAb11a GGCATCTGACTTTGAGCCCCAGGGTCTCAGCGAAGCAGCTCGATGGAACCTCCAAGGAAAA 158
 mAb1I GGCATCTGACTTTGAGCCCCAGGGTCTCAGCGAAGCAGCTCGATGGAACCTCCAAGGAAAA 164
 hAb11b GGCATCTGACTTTGAGCCCCAGGGTCTCAGCGAAGCAGCTCGATGGAACCTCCAAGGAAAA 215
 mAb1IV GGCATCTGACTTTGAGCCCCAGGGTCTCAGCGAAGCAGCTCGATGGAACCTCCAAGGAAAA 215
 hArg TGGTTGTGATGTTGAACCCAGGCACTAAATGAGGCTATCAGGTGGAGCTCCAAGGAGAA 299

hAb11a CCTTCTTGCTGGGCCAGTGAAAAT----- 183
 mAb1I CCTTCTTGCTGGGCCAGTGAAAAT----- 189
 hAb11b CCTTCTTGCTGGGCCAGTGAAAATGACCCCAACCTTTTGTGGCACTCTATGATTTTGT 275
 mAb1IV CCTTCTTGCTGGGCCAGTGAAAAT----- 240
 hArg CTTGCTCG---GAGCCACTGAGAGTGACCTAAT----- 330

hAb11a -
 mAb1I -
 hAb11b G 276
 mAb1IV -
 hArg -